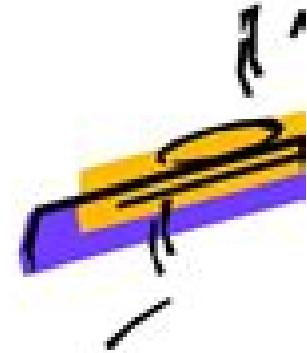


When to use Statecharts



- So the main usages can be described as:
- To model object states of a system.
- To model reactive system. Reactive system consists of reactive objects.
- To identify events responsible for state changes.
- Forward and reverse engineering.



Modeling Reactive Systems With Statecharts

Asaf Degani

Modeling Reactive Systems With Statecharts:

Modeling Reactive Systems with Statecharts David Harel, Michal Politi, 1998 The book provides a detailed description of a set of languages for modelling reactive systems which underlies the STATEMATE toolset. The approach is dominated by the language of Statecharts used to describe behavior combined with Activity charts for describing activities i.e. the functional building blocks, capabilities or objects and the data that flows between them. These two languages are used to develop a conceptual model of the system which can be combined with the system's physical or structural model described in a third language, Module charts. The three languages are highly diagrammatic in nature, constituting full fledged visual formalisms complete with rigorous semantics. They are accompanied by a Data Dictionary for specifying additional parts of the model that are textual in nature.

Modeling Reactive Systems with Statecharts David Harel, 1998

Compositionality: The Significant Difference

Willem-Paul de Roever, Hans Langmaack, Amir Pnueli, 2003-05-20 This book originates from the International Symposium on Compositionality COMPOS 97 held in Bad Malente, Germany in September 1997. The 25 chapters presented in revised full version reflect the current state of the art in the area of compositional reasoning about concurrency. The book is a valuable reference for researchers and professionals interested in formal systems design and analysis; it also is well suited for self study and use in advanced courses.

Taming HAL Asaf Degani, 2004-01-17 Machines dominate our lives from alarm clocks that wake us up in the morning to radios that lull us to sleep. Most of our interactions with automated machines and computers are problem free but more often than we would like they can be irritating and confusing. This is frequently harmless such as a VCR recording the wrong show but when it involves a critical system like an autopilot or medical device it can be a matter of life or death. Taming HAL seeks to explain these miscommunications between humans and machines by exploring user interfaces of everyday devices. Degani examines thirty different systems for human use, including watches, consumer electronic products, Internet applications, cars, medical equipment, navigation systems, onboard cruise ships, and autopilots of commercial aircraft. Readers will discover why interfaces between people and machines all too often do not work and what needs to be done to avoid potential tragedies.

Satellite Events at the MoDELS 2005 Conference

Jean-Michel Bruel, 2006-01-20 The 30 revised full papers were carefully selected for inclusion in the book and are presented along with an educators' section and a doctoral symposium section comprising additional 13 short articles. The papers are organized in topical sections representing the various workshops.

Time for Verification Zohar Manna, Doron A. Peled, 2010-06-30 This volume is dedicated to the memory of the 1996 Turing Award winner, Amir Pnueli. It contains articles written by leading scientists that span the breadth of Pnueli's scientific work, with a focus on the development and the application of formal methods.

A Compositional Approach to Statecharts Semantics Gerald Luetjens, 2000 Abstract: Statecharts is a visual language for specifying reactive system behavior. The formalism extends traditional finite state machines with notions of hierarchy and concurrency and it is used in many popular software design notations. A large part of

the appeal of Statecharts derives from its basis in state machines with their intuitive operational interpretation The traditional semantics of Statecharts however suffers from a serious defect it is not compositional meaning that the behavior of system descriptions cannot be inferred from the behavior of their subsystems Compositionality is a prerequisite for exploiting the modular structure of Statecharts for simulation verification and code generation and it also provides the necessary foundation for reusability This paper suggests a new compositional approach to formalizing Statecharts semantics as flattened transition systems in which transitions represent system steps The approach builds on ideas developed for timed process calculi and employs structural operational rules to define the transitions of a Statecharts expression in terms of the transitions of its subexpressions It is first investigated for a simple dialect of Statecharts with respect to a variant of Pnueli and Shalev's semantics and is illustrated by means of a small example To demonstrate its flexibility the proposed approach is then extended to deal with practically useful features available in many Statecharts variants namely state references history states and priority concepts along state hierarchies **7th Asia-Pacific Software Engineering Conference**, 2000 These papers constitute the proceedings of the Seventh Asia Pacific Software Engineering Conference APSEC 2000 They address software evolution Internet applications engineering requirements engineering software architectures software agents tools and environments and more **Proceedings**, 2004 **12th Euromicro Conference on Real-Time Systems**, 2000

Contains papers from a June 2000 conference reporting on the latest developments in real time computing organized in sections on scheduling real time databases timing analysis real time object oriented design scheduling and control real time model checking clock synchronization and real time

Transactions of the Society for Modeling and Simulation International, 2001 **The Unified Modeling Language**, 1999 **Proceedings of the ACM SIGSOFT Eighth International Symposium on the Foundations of Software Engineering** David S. Rosenblum, 2000 **Models, Algebras and Logic of Engineering Software** M. Broy, Markus Pizka, 2003 **Sixth International Workshop on Object-Oriented Real-Time Dependable Systems**, 2001 The workshop on which this text is based integrates three key computer system engineering technologies CSETs Object oriented CSET Real time CSET and Dependable CSET for developing real time distributed and safety critical applications **American Book Publishing Record Cumulative 1998** R R Bowker Publishing, 1999-03

International Conference on Algorithms and Architectures for Parallel Processing, 2000 **Proceedings Euromicro Conference**, 1998 **Self-adaptive Software**, 2001 **Automata, Computability and Complexity** Elaine Rich, 2008 For upper level courses on Automata Combining classic theory with unique applications this crisp narrative is supported by abundant examples and clarifies key concepts by introducing important uses of techniques in real systems Broad ranging coverage allows instructors to easily customise course material to fit their unique requirements

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